

WHAT IS CLAIMED IS:

1. A method of preparing a medium with contrast enhancement agents therein, the method comprising the step of measuring a property of the contrast enhancement agents during preparation of the medium to assist in properly preparing the medium.

2. The method of Claim 1, further comprising the step of pressurizing the medium.

3. The method of Claim 1, further comprising the step of producing an image of the patient.

4. The method of Claim 1, further comprising the step of agitating the medium.

5. The method of Claim 1 wherein the property of the contrast enhancement agents comprises at least one of concentration and size distribution.

6. A system for preparing a medium with contrast enhancement agents therein, the system comprising:

a container including the medium;
an agitation mechanism operably associated with the container for agitating the medium; and
a sensor adapted to measure a property of the contrast enhancement agents in the container.

7. The system of Claim 6, further comprising a communication unit in communication with the sensor, the communication unit operable to communicate data

corresponding to the measured property of the contrast enhancement agents.

8. The system of Claim 7, further comprising a processing unit in communication with the communication unit, the processing unit operable to transmit one or more control signals based at least in part on the measured property data.

9. The system of Claim 8, further comprising a controller in communication with the processing unit, the controller operable to control the agitation mechanism at least in part in response to the one or more control signals from the processing unit.

10. The system of Claim 6 wherein the property of the contrast enhancement agents comprises at least one of concentration and size distribution.

11. The system of Claim 7, further comprising a user interface in communication with the communication unit to provide an indication functionally related to the measured property data to an operator.

12. A method of delivering a medium with contrast enhancement agents therein into a patient, the method comprising:

measuring a property of the contrast enhancement agents; and

controlling at least one of the delivery of the contrast enhancement agents or an imaging procedure carried out in conjunction with delivery of the contrast enhancement

agents by selective destruction of contrast enhancement agents.

13. The method of Claim 12 wherein the selective destruction adjusts the concentration of the contrast enhancement agents.

14. The method of Claim 12 wherein the selective destruction adjusts the size distribution of the contrast enhancement agents.

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